

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for identifying an agent that ~~modulates~~ increases glucose uptake in a mammalian cell, the method comprising:
contacting a mammalian cell with a candidate agent;
determining whether the candidate agent ~~modulates~~ increases store-mediated Ca^{2+} entry (SMCE) into the cell; and
determining whether the candidate agent ~~modulates~~ increases glucose uptake in the cell.

2-3. (Cancelled)

4. (Currently Amended) A method for identifying an agent that ~~modulates~~ increases glucose uptake in a mammalian cell, the method comprising:
contacting a candidate agent with a SMCE-regulating factor;
determining whether the candidate agent ~~modulates~~ stimulates a function of the SMCE-regulating factor; and
determining whether the candidate agent ~~modulates~~ increases glucose uptake in a mammalian cell.

5-6. (Cancelled)

7. (Currently Amended) A method for identifying an agent that ~~modulates~~ increases glucose uptake in a mammalian cell, the method comprising:

contacting a mammalian cell with a candidate agent, wherein the candidate agent ~~modulates~~ increases SMCE into the cell;
measuring glucose uptake in the cell in the presence of the candidate agent; and
determining whether the candidate agent ~~modulates~~ increases glucose uptake in the cell,
wherein ~~altered~~ increased glucose uptake in the cell in the presence of the candidate agent
compared to the absence of the candidate agent indicates that the candidate agent ~~modulates~~
increases glucose uptake.

8-17. (Cancelled)

18. (New) The method of claim 1, wherein the glucose uptake is insulin-stimulated glucose uptake.

19. (New) The method of claim 4, wherein the glucose uptake is insulin-stimulated glucose uptake.

20. (New) The method of claim 7, wherein the glucose uptake is insulin-stimulated glucose uptake.

21. (New) The method of claim 1, wherein the mammalian cell is a skeletal muscle cell.

22. (New) The method of claim 4, wherein the mammalian cell is a skeletal muscle cell.

23. (New) The method of claim 7, wherein the mammalian cell is a skeletal muscle cell.

24. (New) The method of claim 18, wherein the mammalian cell is a skeletal muscle cell.

25. (New) The method of claim 19, wherein the mammalian cell is a skeletal muscle cell.

26. (New) The method of claim 20, wherein the mammalian cell is a skeletal muscle cell.